

# SmartBuilder - Titanium

## SmartBuilder®

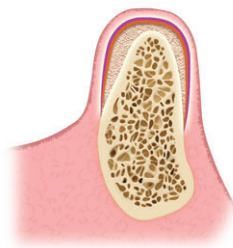
- 3D pre-formed design, no trimming & bending necessary
    - For bone defect reconstruction
    - Various sizes and configurations available
  - Ti-mesh with no risk of soft tissue exposure
    - No sharp edges or wrinkles due to the 3D pre-formed design
    - Directly anchored to the implant or to the jaw, bone graft material stays securely in place
  - Excellent bone regeneration
    - Allows ample blood flow through pores
  - Choose either non-submerged or submerged closure
    - Healing Cap for non-submerged closure
    - Cover Cap for submerged closure
  - Simultaneous GBR + fixture placement: healing cap or cover cap + SmartBuilder + SB anchor + fixture
  - If remaining the bone is narrow or insufficient: healing cap or cover cap + SmartBuilder + tenting screw
- ※ Disposable; Do not re-use

- ✔ SMART 3D Design
- ✔ SMART Handling
- ✔ SMART Covering
- ✔ SMART Conduction
- ✔ SMART Healing

P = Proximal  
BL = Buccal Length  
BD = Buccal Distance  
LD = Lingual Distance

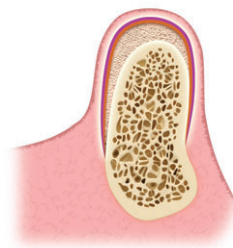
### SB1 Papilla Builder

Titanium membrane for aesthetic reconstruction of the papilla when alveolar bone recession is less than 1.5 mm. One-stage procedure is possible for GBR and immediate placement after tooth extraction.



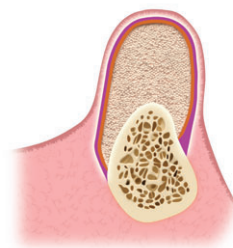
### SB2 Lateral Builder

Titanium membrane for reconstructing minor vertical and horizontal bone defects due to a socket extraction, fenestration and dehiscence defects.



### SB3 Jaw Builder

Titanium membrane for reconstructing alveolar ridges with severe vertical and horizontal bone recession of 5-10 mm.



## SB1 Papilla Builder

P			P	BL	BD	LD		
7mm			Scallop shape					
				7	3	5	5	SB1P73A
			7	5	5	5	SB1P75A	
10mm			Scallop shape					
				10	3	5.5	5.5	SB1P103A
			10	5	5.5	5.5	SB1P105A	
12mm			Scallop shape					
				12	3	6.5	6.5	SB1P123A
			12	5	6.5	6.5	SB1P125A	

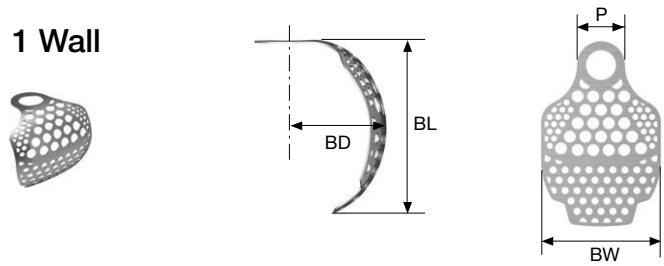
# SmartBuilder - Titanium

## SB2 Lateral Builder

P = Proximal  
 BW = Buccal Width  
 BL = Buccal Length  
 BD = Buccal Distance

### Augmentation

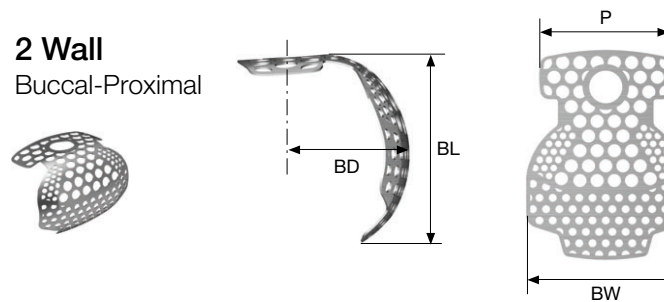
#### 1 Wall



P	BW	BL	BD	
4	8	7	5.5	SM1W487SB
4	10	7	5.5	SM1W4107SB
4	10	9	5.5	SM1W4109SB

#### 2 Wall

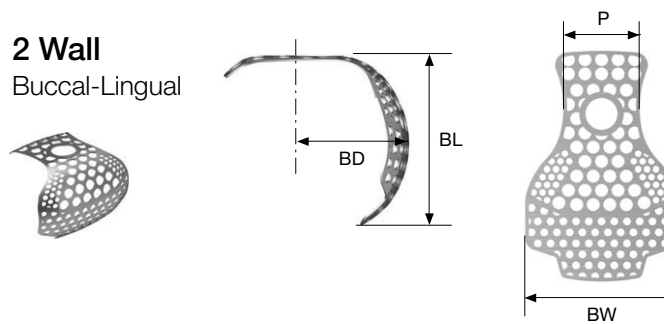
Buccal-Proximal



7	9	7	5.5	SM2W797SB
7	9	9	5.5	SM2W799SB
10	12	7	5.5	SM2W10127SB
10	12	9	5.5	SM2W10129SB
12	12	7	5.5	SM2W12127SB
12	12	9	5.5	SM2W12129SB

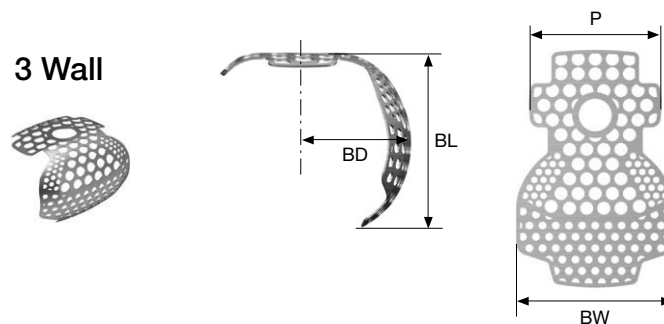
#### 2 Wall

Buccal-Lingual



5	9	7	5.5	SM2W597SE
5	9	9	5.5	SM2W599SE
6	12	7	5.5	SM2W6127SE
6	12	9	5.5	SM2W6129SE
7	12	7	5.5	SM2W7127SE
7	12	9	5.5	SM2W7129SE

#### 3 Wall



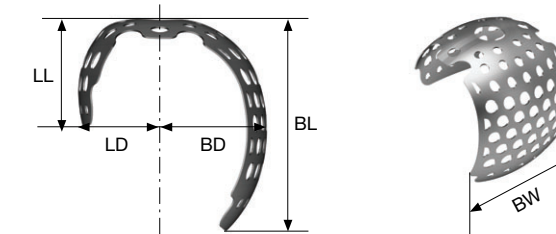
7	9	7	5.5	SM3W797SB
7	9	9	5.5	SM3W799SB
10	12	7	5.5	SM3W10127SB
10	12	9	5.5	SM3W10129SB
12	12	7	5.5	SM3W12127SB
12	12	9	5.5	SM3W12129SB

## SB3 Jaw Builder

BW = Buccal Width  
 BL = Buccal Length  
 LL = Lingual Length  
 BD = Buccal Distance  
 LD = Lingual Distance

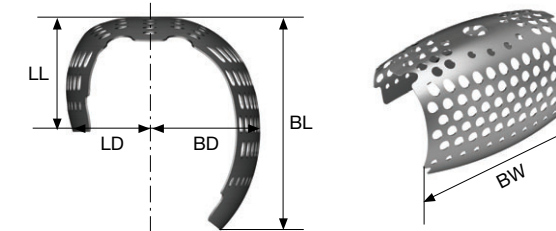
### Augmentation

#### Horizontal



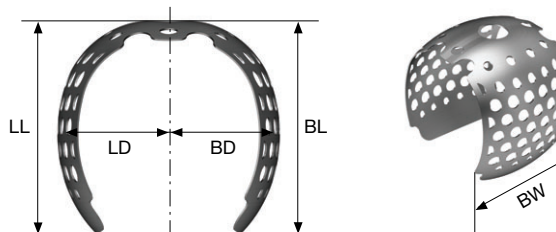
BW	BL	LL	BD	LD	
10	7	3.5	5.5	3.7	SB3H107F
10	9	4.5	5.5	3.7	SB3H109F
10	11	6	5.5	3.7	SB3H1011F

#### Horizontal



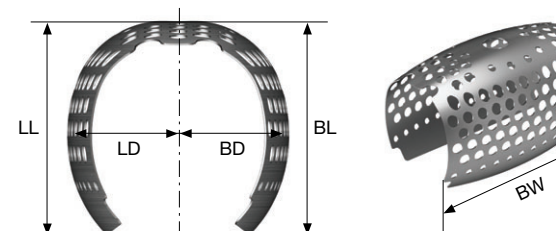
20	7	3.5	5.5	3.7	SB3H207F
20	9	4.5	5.5	3.7	SB3H209F
20	11	6	5.5	3.7	SB3H2011F

#### Vertical



10	7	7	5.5	5.5	SB3V107F
10	9	9	5.5	5.5	SB3V109F
10	11	11	5.5	5.5	SB3V1011F

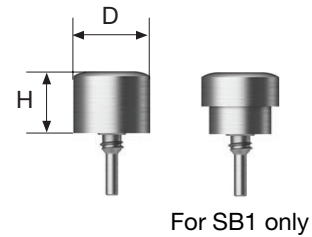
#### Vertical



20	7	7	5.5	5.5	SB3V207F
20	9	9	5.5	5.5	SB3V209F
20	11	11	5.5	5.5	SB3V2011F

## Healing Cap for TS

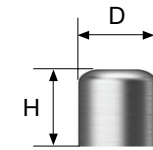
- Non-submerged closure
  - Compatible with SB1, SB2 and SB3 (unavailable for  $\varnothing 5.0$ , SB1)
  - Use a 0.9 hex hand driver
  - Recommended tightening torque : 5-8 N cm
- ※ Disposable; Do not re-use



D \ H	3.0	4.0
<b>Ø4.0</b>	SBHC4030	SBHC4040
<b>Ø5.0</b>	SBHC5030	SBHC5040
<b>Ø5.0</b> For SB1 only	SBHC5030D	SBHC5040D

## Healing Cap for US

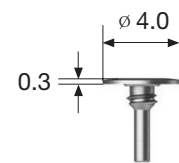
- Non-submerged closure
  - Compatible with SB1, SB2 and SB3
  - Use a 1.2 hex hand driver
  - Recommended tightening torque: 5-8 N cm
- ※ Disposable; Do not re-use



D \ H	3.0	4.0
<b>Ø4.0</b>	SMHA443R	SMHA444R
<b>Ø5.0</b>	SMHA553R	SMHA554R

## Cover Cap for TS

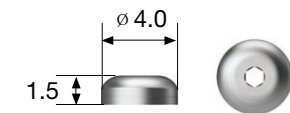
- Submerged closure
  - Compatible with SB1, SB2 and SB3
  - Use a 0.9 hex hand driver
  - Recommended tightening torque: 5-8 N cm
- ※ Disposable; Do not re-use



D \ H	0.3
<b>Ø4.0</b>	SBCC4000

## Cover Cap for US

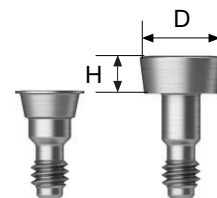
- Submerged closure
  - Compatible with SB1, SB2 and SB3
  - Use a 0.9 hex hand driver or a cover cap driver
  - Recommended tightening torque: 5-8 N cm
- ※ Disposable; Do not re-use



D \ H	1.5
<b>Ø4.0</b>	SMCC415

## SB Anchor for TS

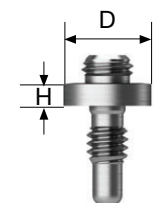
- For use with TS fixture only
  - Compatible with SB1, SB2 and SB3
  - Use a 0.9 hex hand driver
  - Recommended tightening torque: 12-15 N cm
- ※ Disposable; Do not re-use



D \ H	0	0.5	1.0	1.5	2.0	2.5	3.0
<b>Ø3.5</b>	SBAC3500TSM	SBAC3505TSM	SBAC3510TSM	SBAC3515TSM	SBAC3520TSM	SBAC3525TSM	SBAC3530TSM
<b>Ø4.0</b>	SBAC4000TSR	SBAC4005TSR	SBAC4010TSR	SBAC4015TSR	SBAC4020TSR	SBAC4025TSR	SBAC4030TSR

## SB Anchor for US

- For use with US fixture only
  - Compatible with SB1, SB2 and SB3
  - Use a 1.2 hex hand driver
  - Recommended tightening torque: 12-15 N cm
- ※ Disposable; Do not re-use



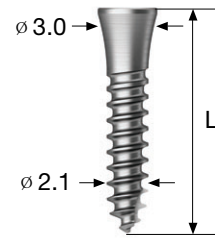
D \ H	1.0	1.5	2.0	2.5	3.0
<b>Ø3.5</b>	SMHI310USM	SMHI315USM	SMHI320USM	SMHI325USM	SMHI330USM
<b>Ø4.0</b>	SMHI410USR	SMHI415USR	SMHI420USR	SMHI425USR	SMHI430USR
<b>Ø5.1</b>	SMHI510USW	SMHI515USW	SMHI520USW	SMHI525USW	SMHI530USW
<b>Ø5.0</b>	SMHI510USP	SMHI515USP	SMHI520USP	SMHI525USP	SMHI530USP

# SmartBuilder Components

## Tenting Screw

### Internal Type

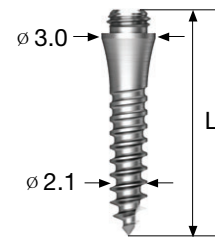
- Easy suturing, the height of the "tent" is lower than the external type
  - Used in place of a fixture when there is insufficient osteoid volume or bone width
  - Compatible with SB1, SB2 and SB3
  - Recommended insertion depth: >3~5 mm for hard/normal bone and >5 mm for soft bone
  - Use a 0.9 hex torque driver, torque slowly
  - Compatible with cover cap (TS) and healing cap (TS)
- ※ Disposable; Do not re-use



L	8.5	10	11.5	13
	SBS2008I	SBS2010I	SBS2011I	SBS2013I

### External Type

- Use a 1.2 hex torque driver, torque slowly
  - Compatible with cover cap (TS) and healing cap (US)
- ※ Disposable; Do not re-use



L	8.5	10	11.5	13
	SBS2008E	SBS2010E	SBS2011E	SBS2013E

## Defect Gauge

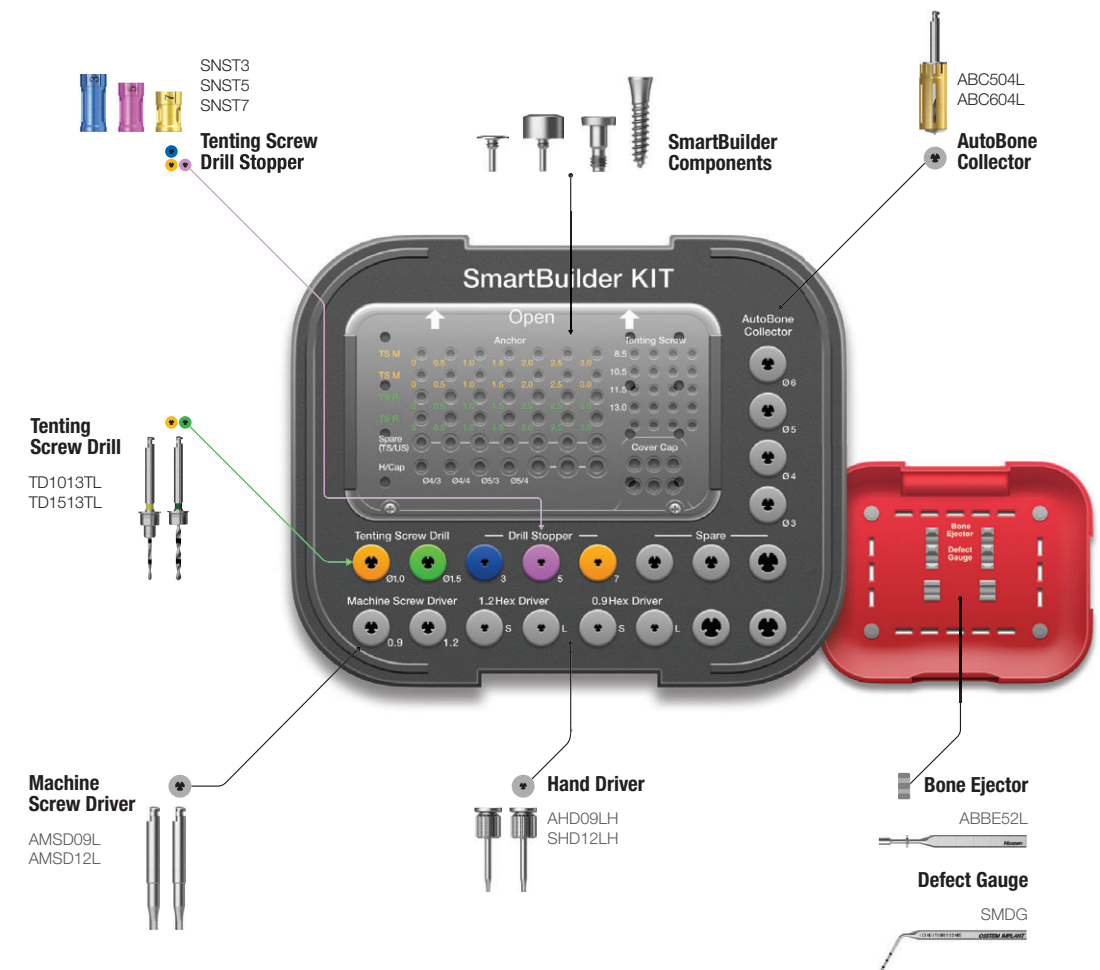
- Measures a defect's height (vertical) and width (horizontal)
  - 4-5, 9-10 and 14-15 thick lines
  - Markers in 1 mm increments
- ※ Carefully measure the defect to select the appropriate SmartBuilder to avoid additional modifications like trimming and bending.



SMDG

# SmartBuilder KIT

- Incorporates all the tools necessary for applying SmartBuilders
- Connects SmartBuilders: SB1, SB2, SB3 and SB anchor, cover cap, and healing cap
- Tenting screw prevents a wide range of vertical and horizontal bone loss even in bone with a narrow width
- Harvest autogenous bone using the AutoBone collector



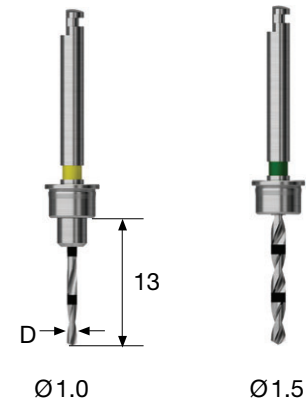
## Components

	Item	Specification	Default/Option	
Middle plate	Tenting Screw Drill	Ø1.0, Ø1.5	Default	
	Stopper	3, 5, 7mm	Default	
	Machine Screw Driver	0.9 hex long, 1.2 hex long	Default	
	Hex Hand Driver	0.9 hex long, 1.2 hex long	Default	
	AutoBone Collector		Ø3.0, Ø4.0	Option
			Ø5.0, Ø6.0	Default
	SB Anchor		TS mini, regular(0~1.5mm)	Default
			TS mini, regular(2.0~3.0mm)	Option
	Healing Cap		Ø4.0, Ø5.0(3, 4mm)	Default
	Tenting Screw		8.5, 10, 11.5, 13mm	Default
Cover Cap		-	Default	
Bottom plate	Bone Ejector		Default	
	Defect Gauge		Default	

## Tenting Screw Drill

- Initial drilling recommended before inserting the tenting screw
- Hard bone :  $\varnothing$  1.5 / normal, soft bone :  $\varnothing$  1.0 drill
- Laser markers : 1, 2, 3, 4, 5, 6, 7 and 8 mm
- Recommended rpm : 1200-1,500 rpm
- Use with Stopper System : 3-7 mm

L \ D	$\varnothing$ 1.0	$\varnothing$ 1.5
13	TD1013TL	TD1513TL



## Stopper

- Use with tenting screw drill to limit drilling depth

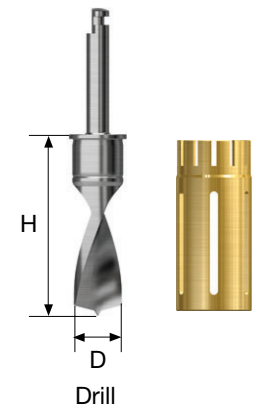
Length of protrusion	3mm	5mm	7mm
	SNST3	SNST5	SNST7



## AutoBone Collector<sup>®</sup>

- Drill and Stopper Set, comes in  $\varnothing$  3.0 to  $\varnothing$  6.0 sizes
- Recommended rpm: 300-600 rpm
- Use of drill and stopper: 50 times
- ※ Harvest autogenous bone by drilling 4 mm into the donor location until the Stopper clicks into the Phase II Locking position. (stop drilling and collect harvested autogenous bone in the Stopper)

L \ D	$\varnothing$ 3.0	$\varnothing$ 4.0	$\varnothing$ 5.0	$\varnothing$ 6.0
Short	ABC304S	ABC404S	ABC504S	ABC604S
Long	ABC304L	ABC404L	ABC504L	ABC604L



## Stopper

- Limits drilling depth up to 4 mm to harvest cortical bone
- Collects harvested autogenous bone during drilling

L \ D	$\varnothing$ 3.0	$\varnothing$ 4.0	$\varnothing$ 5.0	$\varnothing$ 6.0
Short	ABC2ST304S	ABC2ST404S	ABC2ST504S	ABC2ST604S
Long	ABC2ST304L	ABC2ST404L	ABC2ST504L	ABC2ST604L



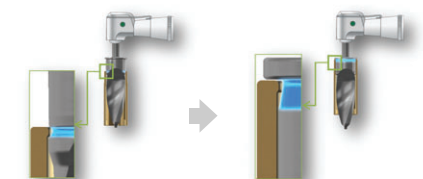
## Bone Ejector

- Removes harvested autogenous bone from inside the Stopper

D	$\varnothing$ 3.0 / $\varnothing$ 4.0 / $\varnothing$ 5.0 / $\varnothing$ 6.0
	ABBE52L



Guideline for connecting the 2-stage locking Stopper



Slide the Stopper onto the drill until it clicks into the Phase I Locking position

Stop drilling when the Stopper clicks into the Phase II Locking position

※ Please refer to the instructional video for detailed use